

## EAST Search History

| Ref # | Hits    | Search Query   | DBs             | Default Operator | Plurals | Time Stamp       |
|-------|---------|--|-----------------|------------------|---------|------------------|
| S1    | 1092    | 455/234.1.ccls. or 455/234.2.ccls. or 455/239.1.ccls. or 455/245.1.ccls. or 455/246.1.ccls. or 455/250.1.ccls. | US-PGPUB; USPAT | OR               | ON      | 2006/09/20 11:29 |
| S2    | 4345859 | @ad<="20031126"  | US-PGPUB; USPAT | OR               | ON      | 2006/03/13 11:04 |
| S3    | 763     | S1 and S2  | US-PGPUB; USPAT | OR               | ON      | 2006/03/13 11:05 |
| S4    | 366     | S3 and (program\$5 or configur\$4 or custom\$6)  | US-PGPUB; USPAT | OR               | ON      | 2006/03/13 11:12 |
| S5    | 2       | S3 and (hold and release and acquisition)  | US-PGPUB; USPAT | OR               | ON      | 2006/03/13 11:14 |
| S6    | 2       | S3 and ((hold or delay) and release and acquisition)   | US-PGPUB; USPAT | OR               | ON      | 2006/03/13 11:14 |
| S7    | 9       | S3 and ((hold or delay) and release)   | US-PGPUB; USPAT | OR               | ON      | 2006/03/13 11:50 |
| S8    | 65      | S3 and protocol  | US-PGPUB; USPAT | OR               | ON      | 2006/03/13 12:14 |
| S9    | 359     | acquisition and hold and release and gain adj control and receiver   | US-PGPUB; USPAT | OR               | ON      | 2006/03/13 12:16 |
| S10   | 338     | S9 and S2  | US-PGPUB; USPAT | OR               | ON      | 2006/03/13 12:19 |
| S11   | 326     | S10 and (program\$5 or configur\$4 or custom\$6)   | US-PGPUB; USPAT | OR               | ON      | 2006/03/13 12:20 |
| S12   | 75      | program\$5 same (acquisition and hold and release) and protocol  | US-PGPUB; USPAT | OR               | ON      | 2006/03/13 13:14 |
| S13   | 66      | S2 and S12   | US-PGPUB; USPAT | OR               | ON      | 2006/03/13 13:45 |
| S14   | 5380    | hearing adj aid  | US-PGPUB; USPAT | OR               | ON      | 2006/03/13 13:45 |
| S15   | 4356    | S14 and S2   | US-PGPUB; USPAT | OR               | ON      | 2006/03/13 13:45 |
| S16   | 73      | S15 and acquisition and hold and release   | US-PGPUB; USPAT | OR               | ON      | 2006/03/13 13:46 |
| S17   | 1       | "6563891".pn.  | US-PGPUB; USPAT | OR               | ON      | 2006/03/13 13:52 |
| S18   | 13      | jacques-alexander.in.  | US-PGPUB; USPAT | OR               | ON      | 2006/03/13 14:15 |
| S19   | 1       | "09236083"   | US-PGPUB; USPAT | OR               | ON      | 2006/03/13 14:15 |
| S20   | 327     | hearing adj aid and agc  | US-PGPUB; USPAT | OR               | ON      | 2006/03/14 14:12 |

## EAST Search History

|     |         |  |                    |    |    |                  |
|-----|---------|--|--------------------|----|----|------------------|
| S21 | 4347699 | @ad<="20031126"  | US-PGPUB;<br>USPAT | OR | ON | 2006/03/14 14:12 |
| S22 | 297     | S20 and S21  | US-PGPUB;<br>USPAT | OR | ON | 2006/03/14 14:14 |
| S23 | 15      | S22 and electrostatic  | US-PGPUB;<br>USPAT | OR | ON | 2006/03/14 14:14 |
| S24 | 565     | gain adj control same protocol   | US-PGPUB;<br>USPAT | OR | ON | 2006/09/20 17:50 |
| S25 | 4420783 | @ad<="20031126"  | US-PGPUB;<br>USPAT | OR | ON | 2006/09/20 11:30 |
| S26 | 483     | S24 and S25  | US-PGPUB;<br>USPAT | OR | ON | 2006/09/20 11:37 |
| S27 | 80      | S26 and "455"/\$.ccls.   | US-PGPUB;<br>USPAT | OR | ON | 2006/09/20 11:30 |
| S28 | 308     | S26 and (acquisition or hold or release)   | US-PGPUB;<br>USPAT | OR | ON | 2006/09/20 11:37 |
| S29 | 3       | S26 and programmable near4 (acquisition or hold or release)  | US-PGPUB;<br>USPAT | OR | ON | 2006/09/20 13:56 |
| S30 | 1322    | gain adj control same (protocol or gsm or cdma or tdma)  | US-PGPUB;<br>USPAT | OR | ON | 2006/09/26 13:27 |
| S31 | 35      | (AGC or automatic adj gain adj control) same transmission near4 (method or protocol or standard) and detector and (hold or release or acquisition) | US-PGPUB;<br>USPAT | OR | ON | 2006/09/26 14:00 |
| S32 | 601     | acquisition and hold and release and (AGC or automatic adj gain adj control)   | US-PGPUB;<br>USPAT | OR | ON | 2006/09/26 14:01 |
| S33 | 4422451 | @ad<="20031126"  | US-PGPUB;<br>USPAT | OR | ON | 2006/09/26 14:01 |
| S34 | 526     | S32 and S33  | US-PGPUB;<br>USPAT | OR | ON | 2006/09/26 14:02 |
| S35 | 80      | S34 and "455"/\$.ccls.   | US-PGPUB;<br>USPAT | OR | ON | 2006/09/26 14:02 |
| S36 | 1164    | 455/234.1.cccls. or 455/234.2.cccls. or 455/239.1.cccls. or 455/245.1.cccls. or 455/246.1.cccls. or 455/250.1.cccls.                               | US-PGPUB;<br>USPAT | OR | ON | 2006/09/26 14:15 |
| S37 | 601     | acquisition and hold and release and (AGC or automatic adj gain adj control)   | US-PGPUB;<br>USPAT | OR | ON | 2006/09/26 14:38 |
| S38 | 601     | acquisition and hold and release and (AGC or automatic adj gain adj control)   | US-PGPUB;<br>USPAT | OR | ON | 2006/09/26 14:39 |
| S39 | 4422451 | @ad<="20031126"  | US-PGPUB;<br>USPAT | OR | ON | 2006/09/26 14:39 |

## EAST Search History

|     |         |   |                    |    |    |                  |
|-----|---------|---|--------------------|----|----|------------------|
| S40 | 526     | S38 and S39   | US-PGPUB;<br>USPAT | OR | ON | 2006/09/26 14:39 |
| S41 | 80      | S40 and "455"/\$.ccls.  | US-PGPUB;<br>USPAT | OR | ON | 2006/09/26 14:40 |
| S42 | 12711   | acquisition and hold and release  | US-PGPUB;<br>USPAT | OR | ON | 2007/08/03 11:07 |
| S43 | 0       | @ad<-20031126   | US-PGPUB;<br>USPAT | OR | ON | 2007/08/03 11:07 |
| S44 | 4486723 | @ad<="20031126"   | US-PGPUB;<br>USPAT | OR | ON | 2007/08/03 11:07 |
| S45 | 8932    | S42 and S44   | US-PGPUB;<br>USPAT | OR | ON | 2007/08/03 11:09 |
| S46 | 1090    | S45 and (agc or gain near4 control\$3)  | US-PGPUB;<br>USPAT | OR | ON | 2007/08/03 11:10 |
| S47 | 478     | S46 and sensitivity   | US-PGPUB;<br>USPAT | OR | ON | 2007/08/03 11:10 |
| S48 | 16      | S47 and "455"/\$.ccls.  | US-PGPUB;<br>USPAT | OR | ON | 2007/08/03 11:21 |
| S49 | 59286   | S47 and programmable or configurable  | US-PGPUB;<br>USPAT | OR | ON | 2007/08/03 11:21 |
| S50 | 220     | S47 and (programmable or configurable)  | US-PGPUB;<br>USPAT | OR | ON | 2007/08/03 11:24 |
| S51 | 144     | S50 and tracking  | US-PGPUB;<br>USPAT | OR | ON | 2007/08/03 11:31 |
| S52 | 4       | (acquisition and (sensitivity or hold) and release and programmable). clm.  | US-PGPUB;<br>USPAT | OR | ON | 2007/08/03 11:33 |
| S53 | 4       | (acquisition same (hold or sensitivity) same release same (agc or gain near4 control\$3))   | US-PGPUB;<br>USPAT | OR | ON | 2007/08/03 11:35 |
| S54 | 18      | terry-john.in.  | US-PGPUB;<br>USPAT | OR | ON | 2007/08/03 11:35 |
| S55 | 15      | (configurable or programmable) near4 sensitivity and "455"/\$.ccls.   | US-PGPUB;<br>USPAT | OR | ON | 2007/08/03 12:10 |
| S56 | 173201  | "455"/("254" or "255").ccls.  | US-PGPUB;<br>USPAT | OR | ON | 2007/08/03 12:11 |
| S57 | 448     | 455/254.ccls. or 455/255.ccls.  | US-PGPUB;<br>USPAT | OR | ON | 2007/08/03 12:11 |
| S58 | 1973    | 455/254.ccls. or 455/255.ccls. or 455/256.ccls. or 455/257.ccls. or 455/258.ccls. or 455/259.ccls. or 455/260.ccls. or 455/263.ccls. or 455/264.ccls. | US-PGPUB;<br>USPAT | OR | ON | 2007/08/03 12:12 |
| S59 | 1377    | S58 and S44   | US-PGPUB;<br>USPAT | OR | ON | 2007/08/03 12:12 |

## EAST Search History

|     |     |  |                    |    |    |                  |
|-----|-----|--|--------------------|----|----|------------------|
| S60 | 409 | S59 and programmable   | US-PGPUB;<br>USPAT | OR | ON | 2007/08/03 12:13 |
| S61 | 110 | S60 and (gain near4 control\$3 or agc)   | US-PGPUB;<br>USPAT | OR | ON | 2007/08/03 12:17 |
| S62 | 7   | S61 and protocol   | US-PGPUB;<br>USPAT | OR | ON | 2007/08/03 12:21 |
| S63 | 25  | 455/552.1.ccls. and (gain near4 control\$3 or agc) and sensitivity   | US-PGPUB;<br>USPAT | OR | ON | 2007/08/03 12:24 |
| S64 | 20  | S63 and S44  | US-PGPUB;<br>USPAT | OR | ON | 2007/08/03 12:21 |
| S65 | 30  | 455/552.1.ccls. and (gain near4 control\$3 or agc) and (programmable or configurable near4 sensitivity)              | US-PGPUB;<br>USPAT | OR | ON | 2007/08/03 12:26 |
| S66 | 19  | S65 and S44  | US-PGPUB;<br>USPAT | OR | ON | 2007/08/03 12:25 |
| S67 | 0   | 455/552.1.ccls. and (gain near4 control\$3 or agc) and (programmable or configurable) near4 sensitivity              | US-PGPUB;<br>USPAT | OR | ON | 2007/08/03 12:26 |
| S68 | 24  | "455"/\$.ccls. and (gain near4 control\$3 or agc) and (programmable or configurable or adjustable) near4 sensitivity | US-PGPUB;<br>USPAT | OR | ON | 2007/08/03 12:26 |
| S69 | 23  | S68 and S44  | US-PGPUB;<br>USPAT | OR | ON | 2007/08/03 12:28 |
| S70 | 190 | "455"/\$.ccls. and increase near4 sensitivity and gain near4 control\$3  | US-PGPUB;<br>USPAT | OR | ON | 2007/08/03 12:29 |
| S71 | 149 | S70 and S44  | US-PGPUB;<br>USPAT | OR | ON | 2007/08/03 12:36 |
| S72 | 569 | software adj defined adj radio   | US-PGPUB;<br>USPAT | OR | ON | 2007/08/03 12:37 |
| S73 | 261 | S72 and S44  | US-PGPUB;<br>USPAT | OR | ON | 2007/08/03 12:37 |
| S74 | 13  | S73 and agc and sensitivity  | US-PGPUB;<br>USPAT | OR | ON | 2007/08/03 12:37 |